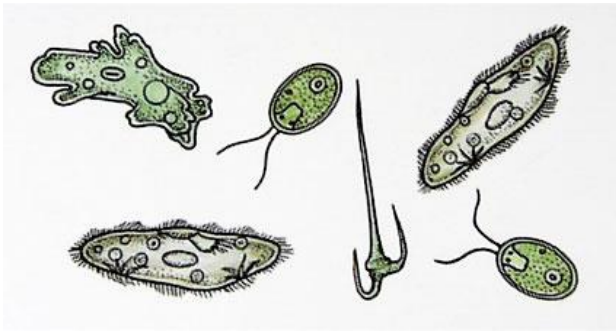


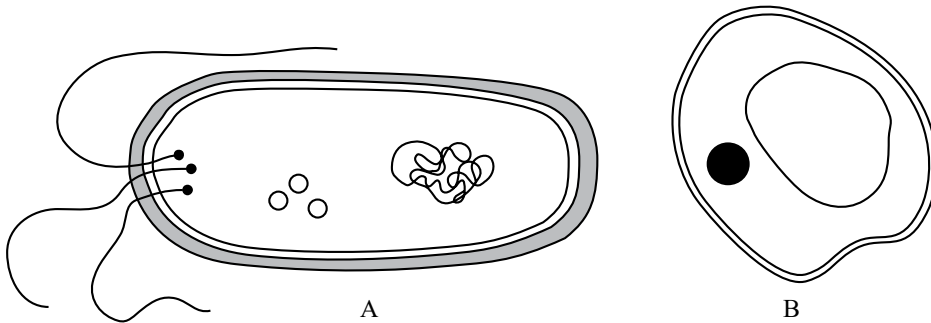
Microorganisms and disease HW 1

1. The micro-organisms shown in the picture below are too small to be seen with the naked eye. Name the piece of equipment which is used to look at these micro-organisms.



(1)

2. The diagrams below show a bacterium and a fungus.



Identify which of these diagrams show a bacterium.

Tick (✓) the correct box:

A

B

(1)

3. Put the following microorganisms in order of size, starting with the smallest.

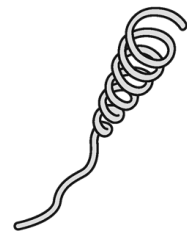
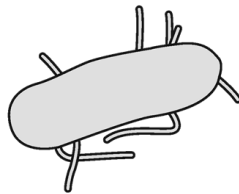
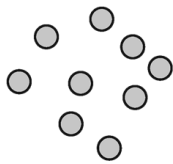
Bacteria

Virus

Fungi

(1)

4 Here are some drawings of different bacteria. Use the key to identify which is which. Write down the correct name underneath each picture (you do not need to remember the names).

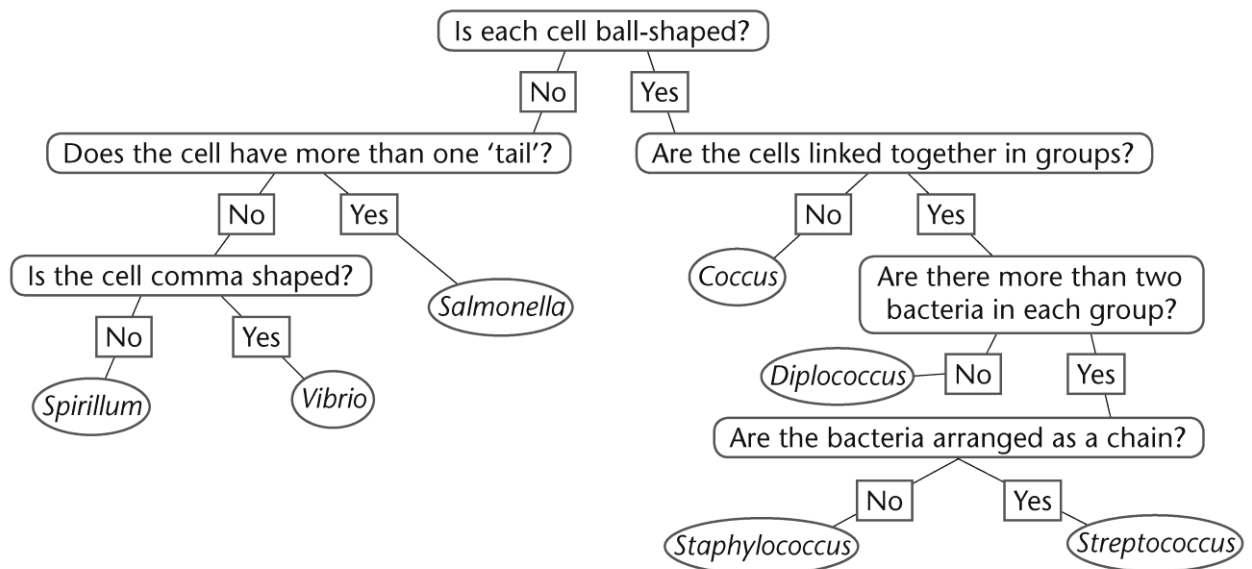


1 _____

2 _____

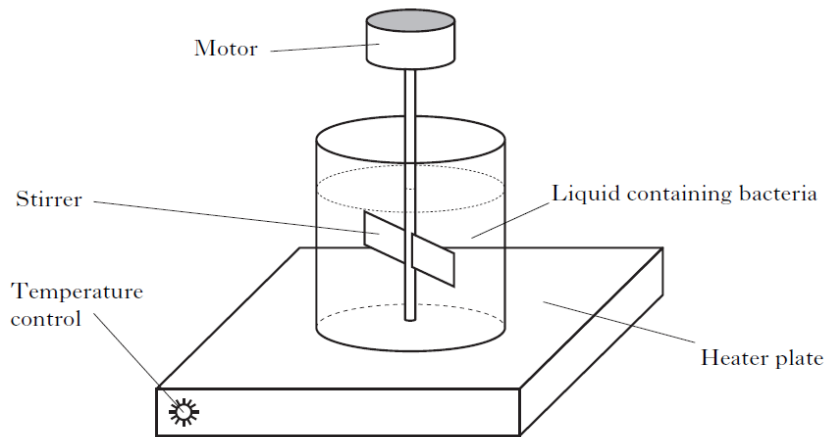
3 _____

4 _____



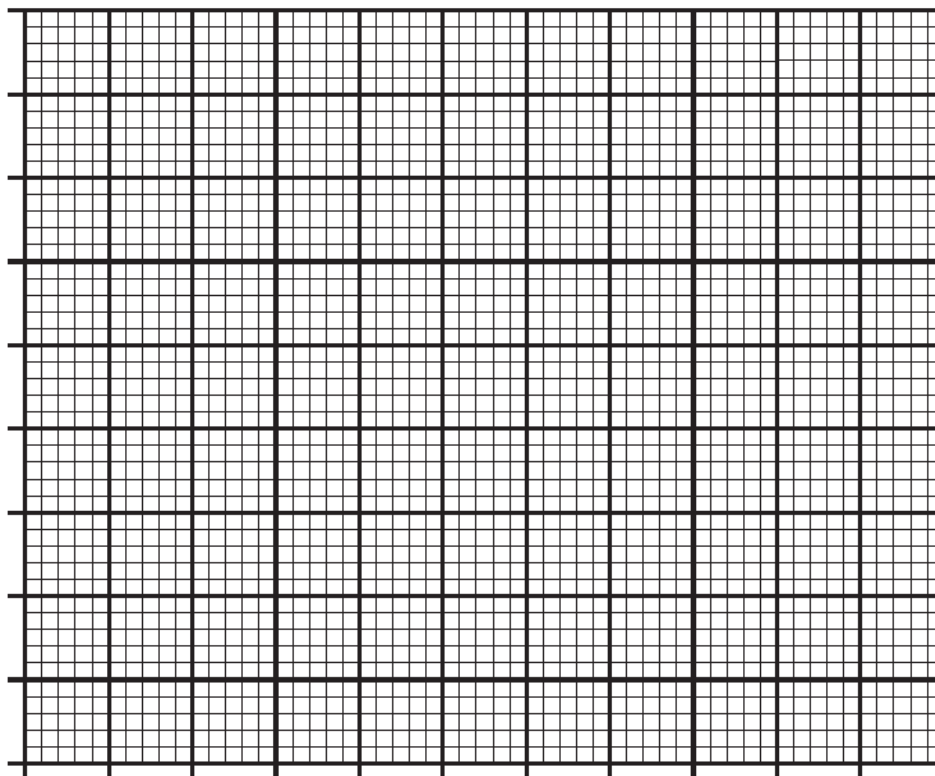
(2)

5. The apparatus shown below was used to investigate the effect of temperature on the growth of bacteria. Seven sets of apparatus were set up, each at a different temperature. Bacteria were added to each of the beakers and the liquid in each beaker was sampled after one hour.



Use the results shown in the table below to draw a line graph.

<i>Temperature</i> (°C)	20	25	30	35	40	45	50
<i>Bacteria</i> (cells per mm ³)	170	220	310	380	420	430	350



(4)

6. The table below shows the temperature ranges in which different types of bacteria can grow.

Type of bacteria	Temperature range (°C)
1	14-21
2	25-37
3	20-35
4	6-15

Which types of bacteria will not grow at 15°C? Circle the correct option.

- A** Types 1 and 3
- B** Types 1 and 4
- C** Types 2 and 3
- D** Types 3 and 4

(1)